

PATENT
Docket No. 310.00120120
(UNM-573.CIP1)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Nelson et al.) Group Art Unit: 1743
Serial No.: 10/643,871)
Confirmation No.: 5206) Examiner: Unassigned
Filed: August 20, 2003)
For: METHODS FOR COVALENTLY ATTACHING PROTEINS TO
SUBSTRATES

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with C.F.R. §§ 1.97 *et. seq.*, the materials enclosed herewith are brought to the attention of the Examiner as possibly being of interest in connection with the above-identified patent application. Per M.P.E.P. § 609, the information cited in the present Information Disclosure Statement shall not be construed to be an admission that the information is, or is considered to be, material to patentability. Consideration of each of the documents listed on the attached 1449 forms is respectfully requested. As this patent application was filed after June 30, 2003, copies of the U.S. patents and U.S. patent application publications listed on the attached 1449 forms have not been submitted. Pursuant to the provisions of M.P.E.P. §609, Applicants further request that a copy of the 1449 forms, marked as being considered and initialed by the Examiner, be returned with the next Official Communication.

This application is a continuation-in-part of U.S. Patent Application Serial No. 09/941,833, filed August 30, 2001, now abandoned. Consideration of all documents of record in that matter is respectfully requested. In accordance with 37 C.F.R. §1.98(d), copies of

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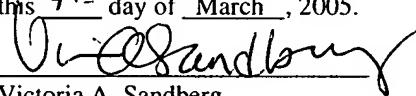
documents previously cited by or submitted to the U.S. Patent and Trademark Office in connection with Applicants' prior application(s) listed above, are not included herewith.

It is believed that no fee is due, as this Information Disclosure Statement is filed prior to the receipt of any Action on the merits. However, in the event a fee is due, please charge any fee or credit any overpayment to Account No. 13-4895.

The Examiner is invited to contact Applicants' Representatives at the below-listed telephone number, if they can be of any assistance during prosecution of the present application.

CERTIFICATE UNDER 37 C.F.R. 1.8:

The undersigned hereby certifies that this paper is being deposited in the United States Postal Service, as first class mail, in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 4th day of March, 2005.



Victoria A. Sandberg

Respectfully submitted for

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By

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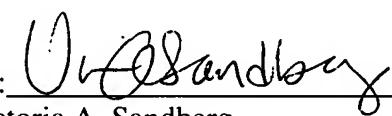
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	Information Disclosure Statement mailed:	March <u>4</u> , 2005

U.S. PATENT DOCUMENTS

Examiner Initial	Copy Enclosed	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
		5,242,797	09/07/93	Hirschfeld			
		6,361,936	03/26/02	Clark			
		6,534,270	03/18/03	Kim et al.			
		USSN 09/941,833	08/30/2001	Nelson et al.			

FOREIGN PATENT DOCUMENTS

Examiner Initial	Copy Enclosed	Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
		NONE						

OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)

Examiner Initial	Copy Enclosed	Document Description
	X	Abdou et al., "Oxidation of conjugated Polymers with Gold Trichloride: Enhanced Stability of the Electronically Conducting State and Electroless Deposition of Au ⁰ ," <i>Synthetic Metals</i> , 1993;60(2):93-96.
	X	Alwine et al., "Method for Detection of Specific RNAs in Agarose Gels by Transfer to Diazobenzoyloxymethyl-Paper and Hybridization with DNA Probes," <i>Proc. Natl. Acad. Sci. USA</i> , 1977;74:5350-5354.
	X	Beier et al., "Versatile Derivatisation of Solid Support Media for Covalent Bonding on DNA-Microchips," <i>Nucleic Acids Research</i> , 1999; 27(9):1970-1977.
	X	Bowden et al., "The Controlled Formation of Ordered, Sinusoidal Structures by Plasma Oxidation of an Elastomeric Polymer," <i>Appl. Phys. Lett.</i> , 1999;75(17): 2557-2559.
	X	Bowtell, "Optionals Available-From Start to Finish-For Obtaining Expression Data by Microarray," <i>Nature Genetics Supplement</i> , 1999;21:25-32.
	X	Brockman et al., "A Multistep Chemical Modification Procedure to Create DNA Arrays on Gold Surfaces for the Study of Protein-DNA Interactions with Surface Plasmon Resonance Imaging," <i>J. Am. Chem. Soc.</i> , 1999;121:8044-8051.

EXAMINER	Date Considered

*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	X	Cheung et al., "Linkage-Disequilibrium Mapping Without Genotyping," <i>Nat. Genet.</i> , 1998;18(3):225-230.
	X	Chiu et al., "Synergistic Effects of Epoxy- and Amine-Silanes on Microarray DNA Immobilization and Hybridization," <i>Biochem. J.</i> , 2003;374(Pt.3):625-632.
	X	Curreli et al., "Novel Diazonium-Functionalized Support for Immobilization Experiments," <i>J. Appl. Polym. Sci.</i> , 1997;66(8):1433-1438.
	X	Dai et al., "Surface Modification of Clays and Clay-rubber Composite," <i>Applied Clay Science</i> , 1999;15(1):51-65.
	X	Debouck et al., "DNA Microarrays in Drug Discovery and Development," <i>Nat. Genet.</i> , 1999;21(1 Suppl):48-50.
	X	DeRisi et al., "Use of a cDNA Microarray to Analyse Gene Expression Patterns in Human Cancer," <i>Nat. Genet.</i> , 1996;14(1):457-460.
	X	DeRisi et al., "Exploring the Metabolic and Genetic Control of Gene Expression on a Genomic Scale," <i>Science</i> , 1997;278(5338):680-686.
	X	Dolan et al., "Robust and Efficient Synthetic Method for Forming DNA Microarrays," <i>Nucleic Acids Res.</i> , 2001;29(21):e107 (8 pages total).
	X	Duffy et al., "Rapid Prototyping of Microfluidic Switches in Poly(dimethyl siloxane) and Their Actuation by Electro-osmotic Flow," <i>J. Micromech. Microeng.</i> , 1999;9(3):211-217.
	X	Ebewele, <i>Polymer Science and Technology</i> , CRC Press 2000, cover page, publication page, and table of contents only (11 pages total).
	X	Fadeev et al., "Surface Modification of Poly(ethylene terephthalate) to Prepare Surfaces with Silica-Like Reactivity," <i>Langmuir</i> , 1998;14(19):5586-5593.
	X	Fancy et al., "New Chemistry for the Study of Multiprotein Complexes: The Six Histidine Tag as a Receptor for a Protein Cross-Linking Reagent," <i>Chem. & Biol.</i> , 1996; 3:551-559.
	X	Fodor et al., "Light-Directed Spatially Addressable Parallel Chemical Synthesis," <i>Science</i> , 1991;251(4995):767-773.
	X	Gillmor et al., "Hydrophilic/Hydrophobic Patterned Surfaces as Templates for DNA Arrays," <i>Langmuir</i> , 2000;16(18):7223-7228.

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	X	Gutowski et al., "Surface Silanization of Polyethylene for Enhanced Adhesion," <i>J. Adhesion</i> , 1993;43:139-155.
	X	Heller et al., "Discovery and Analysis of Inflammatory Disease-Related Genes Using cDNA Microarrays," <i>Proc. Natl. Acad. Sci. USA</i> , 1997;94:2150-2155
	X	Horr et al., "The Reactions of 3-glycidoxypropyltrimethoxysilane in Acidic Solutions on Polymerization and in the Presence of Silica," <i>J. Adhesion Sci. Technol.</i> , 1995;11(7):995-1009.
	X	Jordan et al., "Surface Plasmon Resonance Imaging Measurements of DNA Hybridization Adsorption and Streptavidin/DNA Multilayer formation at Chemically Modified Gold Surfaces," <i>Anal. Chem.</i> , 1997;69(24):4939-4947.
	X	Kinnaird et al., "Cloning of the am (Glutamate Dehydrogenase) Gene of <i>Neurospora Crassa</i> Through the Use of a Synthetic DNA Probe," <i>Gene</i> , 1982; 20:387-396.
	X	Kmoch et al., "Making DNA Microarrays Optimization and Comparison of Various DNA Immobilization Strategies," <i>American Journal of Human Genetics</i> , 2001;69(4):463.
	X	Kononen et al., "Tissue Microarrays for High-Throughput Molecular Profiling of Tumor Specimens," <i>Nat. Med.</i> , 1998;4(7):844-847.
	X	Lopez et al., "Methods for Covalently Attaching Nucleic Acids, Proteins, and Other Biomolecules to Substrates," <i>Science & Technology Corporation @ UNM</i> , [online, retrieved on July 22, 2002]. Retrieved from the Internet: < http://stc.umn.edu/portfolio/print.cfm?docket=UNM-573 >; 3 pages.
	X	MacBeath et al., "Printing Proteins as Microarrays for High-Throughput Function Determination," <i>Science</i> , 2000;289(5485):1760-1763.
	X	Moon et al., "Formation of Uniform Aminosilane Thin Layers: an Imine Formation Measure Relative Surface Density of the Amine Group," <i>Langmuir</i> , 1996;12(20):4621-4624.
	X	Morrison et al, eds., <i>Organic Chemistry</i> , Third Edition, 1973, Allyn and Bacon, Inc., Boston, MA; cover page, publication page, and table of contents only (5 pages total).

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	X	Ondrova et al., "Making DNA Microarrays: Optimization and Comparison of Various DNA Immobilisation Strategies," <i>European Journal of Human Genetics</i> , 2001;9 (Supplement 1):1151.
	X	Schena et al., "Quantitative Monitoring of Gene Expression Patterns with a Complementary DNA Microarray," <i>Science</i> , 1995; 270(5235):467-470.
	X	Stevens et al., "Preparing Neurospora DNA: Some Improvements," <i>Neurospora Newsletter</i> , 1982; 29:27-28 and Table of Contents [online, retrieved on Oct. 13, 2004]. Retrieved from the Internet: < http://www.fgsc.net/nn29/29toc.htm >.
	X	Wang et al., "Large-Scale Identification, Mapping, and Genotyping of Single-Nucleotide Polymorphisms in the Human Genome," <i>Science</i> , 1998;280(5366): 1077-1082.
	X	Winzeler et al., "Functional Analysis of the Yeast Genome," <i>Current Opinion in Genetics and Development</i> , 1997;7:771-776.
	X	Wodicka et al., "Genome-wide Expression Monitoring in <i>Saccharomyces cerevisiae</i> ," <i>Nature Biotechnology</i> , 1997;15:1359-1367.
-	X	Wu et al., "Efficient New Method for Nucleic Acid and Protein Immobilization," poster presentation from the <i>Annual Conference of the American Chemical Society</i> , Boston, MA, Aug. 21, 2002 (18 pages total).
	X	Yeh et al., "Sintering Development and Oxidation Characterization of Al ₂ O ₃ -Doped Si ₃ N ₄ Ceramic," <i>Ceramics International</i> , 1995;21:181-186.

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